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OCEANOGRAPHIC SURVEY OF THE GULF OF MEXICO

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PHYSICAL AND METEOROLOGICAL DATA

Cruise 4 of the U. S. Fish and Wildlife Vessel ALASKA

Research Conducted through the
Texas A.&M. Research Foundation
COLLEGE STATION, TEXAS

THE AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS
Department of Oceanography
College Station, Texas

Research conducted through the
Texas A. & M. Research Foundation
in cooperation with the
Fisheries Biology Division of the
U. S. Fish and Wildlife Service

Project 24

PHYSICAL AND METEOROLOGICAL DATA
Cruise 4 of the U. S. Fish and Wildlife Vessel ALASKA

Project 24 is an Oceanographic Survey of the Gulf of Mexico sponsored by the Office of Naval Research (Project NR 083 036, Contract N7onr-487 T. O. II) and the Bureau of Ships (NE 120219-5). The work reported herein is of a preliminary nature and the results are not necessarily in final form.

Dale F. Leipper
Project Supervisor

June 1953

INTRODUCTION

The data presented in this report were collected by members of the Department of Oceanography on Cruise 4-2A of the U. S. Fish and Wildlife Vessel ALASKA in the Gulf of Mexico during the period 9 January 1952 to 27 January 1952. A sampling pattern for this cruise showing actual depth, sampling depth, thermometer and bottle behavior and wire angle for each station is shown in Figure 1. Figure 2 shows the area covered and the location of each station.

The determinations of the anomalies of density and dynamic height were made by the U. S. Navy Hydrographic Office on IBM equipment. Salinity determinations were begun by U. S. Fish and Wildlife personnel and finished by personnel of this project. The phosphate determinations were made by U. S. Fish and Wildlife personnel.

The following points are listed in order to clarify the notations on the data sheets:

- 1) Omissions are indicated by dashes. These omissions may be due to several causes, among which are failure of the sampling equipment to function properly, lost or broken bottle samples, or unfavorable weather conditions.
- 2) "Time" is messenger time (GCT).
- 3) "Depth" indicates the actual depth to the bottom expressed in fathoms.
- 4) Standard codes are used for weather, sea and visibility. Cloud amounts are expressed in tenths.
- 5) Asterisks indicate extrapolated values of temperature and/or salinity. These values were determined by extrapolating the curve to the next nearest standard depth. This was done only in those instances in which the trend of the curve was well established and the depth required for the extrapolation was not excessive.

PERSONNEL

Texas A. & M. Research Foundation Project 2A

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Austin, Sarah (Mrs.)	Secretary-Computer

On Cruise 4-2A

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Turner, Albert B.
Leipper, Dale F.

Fish and Wildlife Service

Arnold, Edgar L.
Byers, Stanley
Gehring, Jack W.
Gonzales, Robert
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DEPTH IN METERS

STATIONS

LEGEND

○ SAMPLE TAKEN
 ● NO SAMPLE
 □ UNDETERMINED CHARACTER
 ■ NO DATA
 ✕ NO DATA

ALL DATA AT 1000M

FIGURE 1

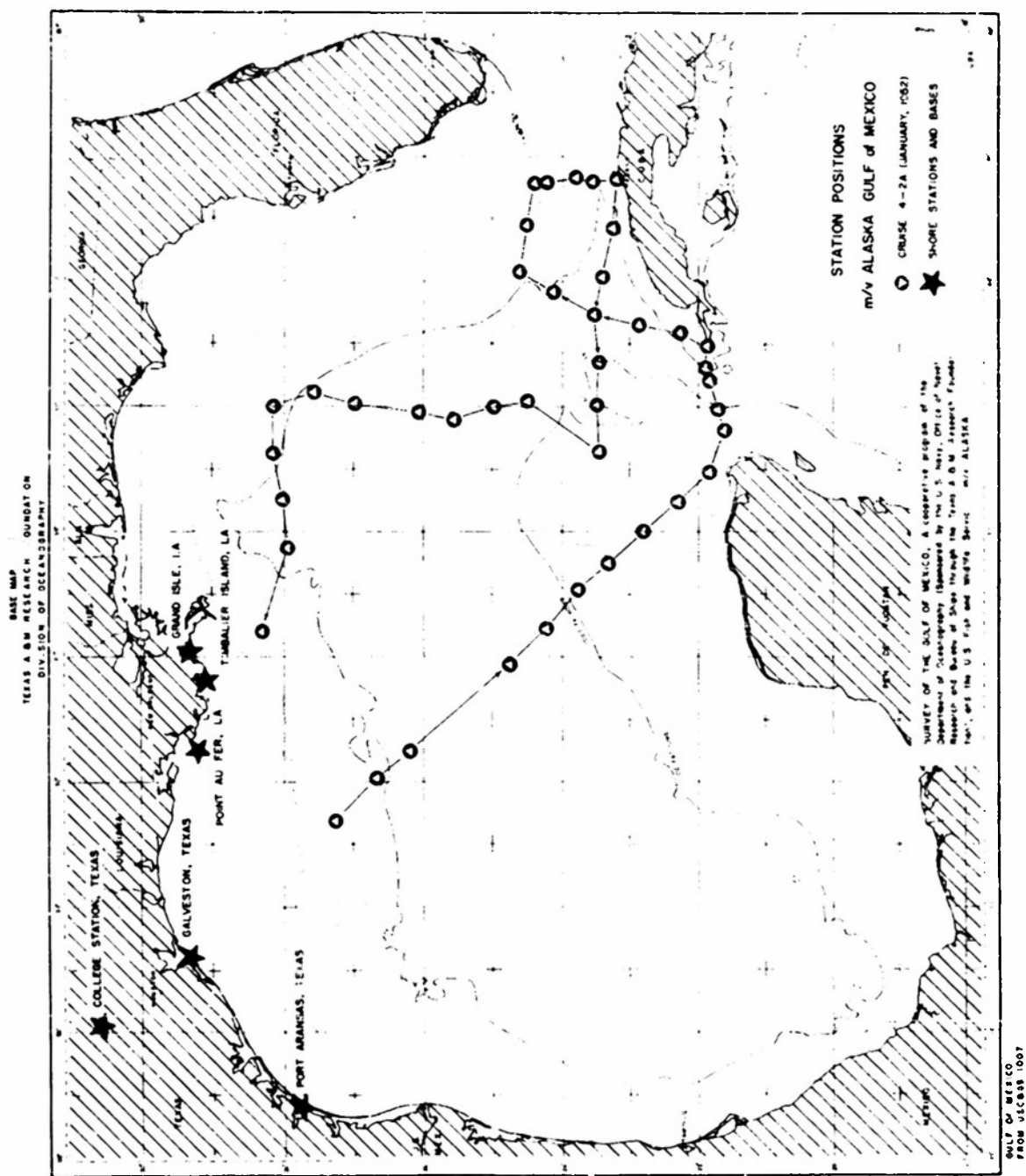


FIGURE 2

VESSEL: ALASKASTA. NO. 4-2A-1 DATE 9 I 1952 LAT. 27°18' N. LONG. 92°35' W
Day Month YearTIME 2258 DEPTH 560 MAX. SAMPLE DEPTH 895 WIRE ANGLE 30 ° WATER COLOR -
Meters Sc 2 CodeWEATHER 03 SEA 3 SWELL - ° T. - ft. - sec. CLOUDS. Cu 10
Code Code Direction Hgt. Period Type AmountTEMP. 74.2 ° F. 69.8 ° F. BAR. 30.05 in. REL. HUM. 80 % WIND 200 ° T. 2 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	22.86	36.47	0.0		0	22.86	36.47	25.11		0.000	0.0	
10	22.86	36.25	0.1		10	22.86	36.25	24.94		0.029	0.1	
24	22.90	36.51	0.0		20	22.90	36.39	25.04		0.059	0.0	
46	22.62	36.50	0.0		30	22.80	36.51	25.16		0.088	0.0	
69	22.25	36.40	0.1		50	22.55	36.48	25.20		0.144	0.0	
92	20.10	36.45	0.6		75	22.00	36.41	25.31		0.213	0.3	
143	15.67	36.18	1.0		100	18.50	36.40	26.24		0.270	0.7	
191	14.04	35.91	1.6		150	15.35	36.15	26.80		0.348	1.1	
286	10.86	35.39	1.5		200	13.55	35.84	26.95		0.410	1.6	
388	8.78	35.13	1.9		250	11.74	35.53	27.07		0.465	1.5	
486	7.50	34.91	1.8		300	10.50	35.34	27.15		0.517	1.6	
590	6.54	34.88	1.8		400	8.60	35.09	27.27		0.611	1.9	
690	5.87	34.97	1.9		500	7.37	34.90	27.31		0.698	1.8	
795	5.03	34.88	1.8		600	6.47	34.89	27.43		0.778	1.8	
895	4.95	34.97	1.6		700	5.75	34.97	27.58		-----	1.9	
					800	5.02	34.88	27.60		0.913	1.8	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-2 DATE 10 I 1952 LAT. 26°42' N. LONG. 91°59' W.
Day Month YearTIME 0652 DEPTH 80 MAX. SAMPLE DEPTH 1179 WIRE ANGLE 20 ° WATER COLOR -
MetersWEATHER 60 SEA 3 SWELL - °T. - ft. - sec. CLOUDS Sc 20
Code Code Direction Hgt. Period Type AmountTEMP. 70.0 °F. 66.5 °F. BAR. 30.18 in. REL. HUM. 85 % WIND 340 °T. 5 VIS. 6
Dry Wet Direction Force Code

OBSERVED VALUES				VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄	DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L	m.	°C	‰	mg/cm ³		G/N. m.	μgat/L
0	22.64	—	0.0	0	22.64	36.35	25.08		0.000	0.0
10	22.65	36.31	0.3	10	22.65	36.31	25.05		0.029	0.3
29	22.65	36.43	0.1	20	22.70	36.40	25.10		0.058	0.2
57	22.55	36.43	0.1	30	22.65	36.43	25.14		0.087	0.1
85	19.09	36.53	0.6	50	22.60	36.43	25.15		0.144	0.1
133	17.40	36.17	0.7	75	20.10	36.50	25.90		0.206	0.5
170	13.44	35.66	1.4	100	18.75	36.45	26.21		0.256	0.6
228	11.60	35.71	2.3	150	16.60	35.87	26.73		0.340	0.9
341	9.75	35.18	1.7	200	12.25	35.49	26.94		0.410	2.1
452	7.80	34.97	2.1	250	11.30	35.36	27.02		0.467	2.3
567	6.52	34.88	2.3	300	10.45	35.26	27.10		0.521	1.9
678	5.72	34.91	2.2	400	8.61	35.07	27.25		0.618	1.9
907	4.75	34.92	1.7	500	7.22	34.92	27.35		0.704	2.2
1179	4.32	34.91	2.4	600	6.24	34.88	27.45		0.782	2.3
				700	5.57	34.91	27.56		—	2.2
				800	5.14	34.92	27.62		0.912	1.9
				1000	4.52	34.92	27.69		1.022	1.8
				1200	*4.29	*34.91	27.71		1.126	*2.5

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-6 DATE 11 I 1952 LAT. 24°46' N. LONG. 90°06' W.
Day Month YearTIME 1255 DEPTH 1900 MAX. SAMPLE DEPTH 2252 WIRE ANGLE 27 ° WATER COLOR -
Meters CodeWEATHER 02 SEA 3 SWELL 45 ° T. 8 ft. 6 sec. CLOUDS Sc 9
Code Code Direction Hgt. Period Type AmountTEMP. 70.5 ° F. 64.0 ° F. BAR. 30.40 in. REL. HUM. 70 % WIND 090 ° T. 3 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	FO _s		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO _s	
m.	°C	‰	μgat/l.		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	23.51	36.44	0.4		0	23.51	36.44	24.90		0.000	0.4	
13	23.54	36.37	0.2		10	23.51	36.39	24.86		0.031	0.2	
31	23.54	36.31	0.0		20	23.50	36.34	24.82		0.062	0.1	
66	23.36	36.36	---		30	23.49	36.31	24.80		0.094	0.0	
97	19.81	36.41	0.8		50	23.47	36.33	24.82		0.157	0.1	
132	17.26	36.19	0.8		75	22.70	36.38	25.09		0.233	0.5	
197	13.98	35.75	0.9		100	19.60	36.41	25.96		0.295	0.8	
252	11.92	35.43	1.3		150	16.10	36.05	26.55		0.386	0.8	
367	9.15	35.19	2.2		200	13.72	35.71	26.61		0.457	0.9	
519	7.15	34.98	2.3		250	12.31	35.47	26.91		0.520	1.2	
643	5.68	35.14	1.9		300	10.90	35.35	27.08		0.576	1.8	
774	5.44	34.97	1.6		400	9.00	35.16	27.26		0.674	2.2	
1032	4.58	34.97	1.6		500	7.38	34.98	27.37		0.759	2.3	
1294	4.27	34.97	1.4		600	6.08	34.98	27.55		0.830	2.0	
1570	4.66	34.97	1.7		700	5.52	34.97	27.61		---	1.8	
2252	4.20	34.99	1.5		800	5.33	34.97	27.63		0.950	1.6	
					1000	4.65	34.97	27.71		1.056	1.6	
					1200	4.31	34.97	27.75		1.154	1.5	
					1500	4.57	34.97	27.72		1.306	1.6	
					2000	4.48	34.98	27.74		1.583	1.6	

A & F Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-7 DATE 11 I 1952 LAT. 24°15' N. LONG. 89°32' W.
Day Month YearTIME 2148 DEPTH 1890 MAX. SAMPLE DEPTH 2500 WIRE ANGLE 5 ° WATER COLOR -
Meters CodeWEATHER 02 SEA 4 SWELL - °T. - ft. - sec. CLOUDS Sc 8
Code Code Direction Hgt. Period Type AmountTEMP. 71.0 °F. 63.8 °F. BAR. 30.39 in. REL. HUM. 68 % WIND 120 T. 3 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	23.90	36.43	0.1		0	23.90	36.43	24.77		0.000	0.1	
15	23.88	36.45	0.1		10	23.85	36.44	24.80		0.032	0.1	
36	23.84	36.41	0.1		20	23.80	36.45	24.82		0.063	0.1	
76	---	36.40	0.0		30	23.75	36.42	24.81		0.095	0.1	
111	19.28	36.40	---		50	23.50	36.40	24.87		0.158	0.1	
151	16.54	36.23	0.7		75	22.10	36.40	25.27		0.231	0.0	
227	13.47	35.68	1.2		100	20.30	36.40	25.77		0.293	0.1	
302	11.16	35.99	---		150	16.56	36.24	26.59		0.388	0.7	
447	8.39	35.00	1.9		200	14.53	35.84	26.74		0.459	1.0	
602	6.76	34.90	1.9		250	12.55	35.50	26.89		0.525	1.3	
748	5.67	34.90	1.9		300	11.15	35.31	27.01		0.584	1.5	
903	5.05	34.88	1.9		400	9.18	35.06	27.16		0.690	1.9	
1204	4.40	34.90	1.6		500	7.80	34.96	27.29		0.784	1.9	
1504	4.21	34.96	1.7		600	6.78	34.90	27.39		0.867	1.9	
1804	4.20	36.95	0.4		700	5.96	34.90	27.50		-----	1.9	
2485	4.20	34.97	1.4		800	5.42	34.90	27.57		1.009	1.9	
					1000	4.80	34.88	27.62		1.131	1.8	
					1200	4.40	34.90	27.69		1.244	1.6	
					1500	4.25	34.96	27.75		1.400	1.7	
					2000	4.20	34.97	27.76		1.660	1.6	
					2500	*4.20*	34.97	27.76		1.938	*1.4	

A & E. Ocu. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-8 DATE 12 I 1952 LAT. 23°47' N. LONG 88°55' W
Day Month Year

TIME 1139 DEPTH 87 MAX. SAMPLE DEPTH 149 WIRE ANGLE 6° WATER COLOR -
Meters Cod.

WEATHER 01 SEA 3 SWELL 090 °T. 5 ft. 6 sec. CLOUDS Sc 3
Code Code Direction Hgt. Period Type Amount

TEMP. 74.1 °F. 67.4 °F. BAR. 30.28 in. REL. HUM. 71 % WIND 090 °T. 3 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES				VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄	DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO ₄
m.	°C	‰	μgat/L	m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	24.03	36.48	0.2	0	24.03	36.48	24.77		0.000	0.2
10	24.15	36.45	0.2	10	24.15	36.45	24.71		0.032	0.2
20	24.16	36.45	0.0	20	24.16	36.45	24.71		0.065	0.0
45	24.16	36.43	0.1	30	24.15	36.44	24.71		0.097	0.0
85	23.49	36.56	0.2	50	24.05	36.43	24.73		0.162	0.1
114	19.68	36.42	0.4	75	23.68	36.53	24.91		0.241	0.2
149	---	36.33	1.0	100	22.30	36.55	25.33		0.313	0.3

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-9 DATE 12 I 1952 LAT. 23°19' N. LONG. 88°29' W
Day Month Year

TIME 1908 DEPTH 48 MAX. SAMPLE DEPTH 85 WIRE ANGLE 0° WATER COLOR -
Meters Code

WEATHER 02 SEA 3 SWELL - °T. - ft. - sec. CLOUDS Sc 9
Code Code Direction Hgt. Period Type Amount

TEMP. 76.8°F. 69.4°F. BAR. 30.27 in. REL. HUM. 69% WIND 090°T. 3 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	24.40	36.41	0.0		0	24.40	36.41	24.51		0.000	0.0
10	24.39	36.42	0.0		10	24.39	36.42	24.62		0.033	0.0
25	24.42	36.31	0.0		20	24.40	36.37	24.58		0.067	0.0
45	24.36	36.34	0.1		30	24.40	36.32	24.54		0.101	0.0
65	23.84	36.36	0.0		50	24.23	36.35	24.61		0.169	0.1
85	20.73	36.51	0.5		75	23.40	36.39	24.89		0.249	0.2

VESSEL: ALASKA

STA. NO. 4-2A-10 DATE 13 I 1952 LAT. 22°48' N. LONG. 88°00' W.
Day Month Year

TIME 0044 DEPTH 34 MAX. SAMPLE DEPTH 50 WIRE ANGLE -° WATER COLOR -
Meters Code

WEATHER 01 SEA 2 SWELL 040 °T. 4 ft. 5 sec. CLOUDS Sc 3
Code Code Direction Hgt. Period Type Amount

TEMP. 75.1°F. 67.0°F. BAR. 30.26 in. REL. HUM. 66% WIND 090°T. 2 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	24.24	36.53	0.0		0	24.24	36.53	24.75		0.000	0.0
10	24.23	36.25	1.5		10	24.23	36.25	24.54		0.033	1.5
30	24.25	36.36	0.0		20	24.23	36.30	24.58		0.067	1.4
40	24.31	36.51	---		30	24.25	36.36	24.62		0.101	0.0
50	24.22	36.61	0.2		50	24.22	36.61	24.81		0.166	0.2

VESSEL: ALASKASTA. NO. 4-2A-11 DATE 13 I 1952 LAT. 22°18' N. LONG 87°30' W
Day Month YearTIME 0652 DEPTH 26 MAX. SAMPLE DEPTH 42 WIRE ANGLE 0° WATER COLOR —
Meters CodeWEATHER 00 SEA 3 SWELL 045 °T. 4 ft. 5 sec. CLOUDS — 0
Code Code Direction Hgt. Period Type AmountTEMP. 74.5 °F. 68.0 °F. BAR. 30.14 in. REL. HUM. 72 % WIND 090 °T. 2 VIS. 3
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ⁶ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	23.49	36.35	0.0		0	23.49	36.35	24.83		0.000	0.0	
7	23.48	36.67	0.0		10	23.48	36.67	25.08		0.030	0.0	
12	23.48	36.56	0.1		20	23.45	36.40	24.88		0.060	0.1	
22	23.44	36.33	0.1		30	21.45	36.45	25.49		0.088	0.3	
32	21.44	36.55	0.4									
42	21.43	36.69	0.4									

VESSEL: ALASKASTA. NO. 4-2A-12 DATE 13 I 1952 LAT. 21°53' N. LONG 87°02' W.
Day Month YearTIME 1249 DEPTH 14 MAX. SAMPLE DEPTH 22 WIRE ANGLE 15° WATER COLOR —
Meters CodeWEATHER 02 SEA 3 SWELL 090 °T. 8 ft. 6 sec. CLOUDS S0 9
Code Code Direction Hgt. Period Type AmountTEMP. 74.5 °F. 66.7 °F. BAR. 30.24 in. REL. HUM. 66 % WIND 090 °T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ⁶ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	22.95	36.08	—		0	22.95	36.08	24.79		0.000	—	
10	21.18	36.35	0.3		10	21.18	36.35	25.49		0.028	0.3	
14	20.91	36.31	0.3		20	20.92	36.32	25.54		0.053	0.2	
22	20.92	36.33	0.2									

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-14 DATE 14 I 1952 LAT. 21°37' N. LONG. 86°23' W.
Day Month Year

TIME 0022 DEPTH 400 MAX. SAMPLE DEPTH 458 WIRE ANGLE 38° WATER COLOR -
Meters Code

WEATHER 01 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sc 6
Code Code Direction Hgt. Period Type Amount

TEMP. 76.7 °F. 69.8 °F. BAR. 30.20 in. REL. HUM. 71 % WIND 090 °T. 2 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	26.48	35.75	0.1		0	26.48	35.75	23.47		0.000	0.1
9	26.52	35.80	0.0		10	26.52	35.82	23.51		0.044	0.0
22	26.52	36.07	0.1		20	26.52	36.00	23.64		0.086	0.1
44	---	36.04	0.0		30	26.45	36.07	23.72		0.128	0.1
65	24.65	36.47	0.1		50	26.00	36.15	23.92		0.208	0.0
85	22.52	36.67	0.2		75	24.00	36.70	24.95		0.292	0.1
130	---	36.43	0.5		100	21.50	36.83	25.77		0.360	0.3
164	10.45	36.25	0.5		150	18.30	36.31	26.22		0.472	0.5
200	---	36.32	0.6		200	16.15	36.08	26.56		0.556	0.6
235	15.07	---	---		250	14.80	35.87	26.70		0.629	0.8
277	14.29	35.81	---		300	13.93	35.77	26.81		0.692	1.0
362	12.07	35.67	1.2		400	10.50	35.50	27.27		0.788	1.3
458	7.83	35.13	1.4								

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-14A DATE 14 I 1952 LAT. 21°37' N. LONG. 86°23' W
Day Month Year

TIME 0212 DEPTH 400 MAX. SAMPLE DEPTH 511 WIRE ANGLE 45° WATER COLOR -
Meters Code

WEATHER 01 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sc 4
Code Code Direction Hgt. Period Type Amount

TEMP. 76.3 °F. 67.4 °F. BAR. 30.22 in. REL. HUM. 62% WIND 100 °T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	

0 26.52 35.86 0.0
 63 24.38 36.47 0.0
 171 17.20 36.28 1.0

174 --- 36.46 0.7
 332 11.80 35.68 1.4
 415 10.16 35.23 ---

511 7.61 34.97 1.8

0 26.52 35.86 23.54 0.000 0.0
 10 26.39 35.95 23.65 0.043 0.0
 20 26.20 36.06 23.79 0.085 0.0

30 25.98 36.15 23.93 0.126 0.0
 50 25.20 36.32 24.30 0.202 0.0
 75 23.90 36.47 24.80 0.288 0.0

100 21.65 36.43 25.42 0.360 0.2
 150 18.25 36.33 26.25 0.471 0.8
 200 16.45 36.21 26.59 0.555 1.1

250 14.45 36.08 26.94 0.622 1.2
 300 12.65 35.85 27.14 0.677 1.3
 400 10.45 35.29 27.12 0.780 1.6

500 7.93 34.99 27.30 0.876 1.8

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-15 DATE 14 I 1952 LAT. 21°43' N. LONG. 86°02' W.
Day Month YearTIME 0643 DEPTH 950 MAX. SAMPLE DEPTH 1241 WIRE ANGLE 33° WATER COLOR -
Meters CodeWEATHER 02 SEA 3 SWELL - °T. - ft. - sec. CLOUDS Sc 7
Code Code Direction Hgt. Period Type AmountTEMP. 76.1 °F. 65.6 °F. BAR. 30.20 in. REL. HUM. 57% WIND 100 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	26.71	35.74	0.2		0	26.71	35.74	23.39		0.000	0.2
13	26.68	35.71	0.1		10	26.71	35.71	23.37		0.045	0.1
28	26.69	35.84	---		20	26.69	35.77	23.42		0.090	0.1
61	---	35.61	0.0		30	26.69	35.84	23.47		0.135	0.0
89	25.16	36.15	0.0		50	26.35	35.70	23.47		0.224	0.0
121	23.57	36.60	0.1		75	25.70	35.90	23.83		0.331	0.0
181	20.44	37.09	---		100	24.53	36.33	24.51		0.425	0.0
239	18.47	36.56	0.4		150	21.90	37.00	25.78		0.569	0.2
348	15.06	35.84	0.9		200	19.83	37.07	26.40		0.668	0.3
457	11.47	35.39	1.0		250	18.30	36.46	26.33		0.756	0.4
559	9.44	34.98	---		300	16.60	36.11	26.48		0.841	0.7
669	---	35.13	1.6		400	13.03	35.66	26.92		0.987	0.9
810	6.10	34.91	1.8		500	10.50	35.07	26.94		1.111	1.1
1022	4.95	34.97	2.2		600	8.85	35.01	27.17		1.224	1.4
1241	4.40	34.99	1.5		700	7.43	35.11	27.46		---	1.6
					800	6.13	34.92	27.49		1.397	1.8
					1000	5.00	34.96	27.66		1.523	2.2
					1200	4.50	34.99	27.75		1.627	1.7

A & M Ocn. Form 7

VESSEL: LADPASTA. NO. 4-21-16 DATE 14 I 1952 LAT. 21°58' N. LONG. 85°35' W.
Dry Month YearTIME 1247 DEPTH 1120 MAX. SAMPLE DEPTH 1918 WIRE ANGLE 18 ° WATER COLOR —
Meters CodeWEATHER 00 SEA 3 SWELL 045 ° T. = — ft. 7 sec. CLOUDS 70 1
Code Code Direction Hgt. Period Type AmountTEMP. 73.5 ° F 65.5 ° F. BAR. 30.13 in. REL HUM. 65 % WIND 090 ° T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ _t	10 ³ S	ΔD	PO.	
m.	°C	‰	μg/L		m.	°C	‰	mg/cm ³		GYA. m.	μg/L	
0	26.61	35.79	0.2		0	26.61	35.79	23.46		0.000	0.2	
15	26.60	35.88	0.1		10	26.61	35.85	23.50		0.044	0.1	
33	26.60	36.09	—		20	26.60	35.96	23.59		0.088	0.1	
71	26.65	36.02	0.1		30	26.60	36.09	23.69		0.131	0.1	
103	26.55	36.09	—		50	26.60	36.10	23.69		0.215	0.1	
140	25.11	36.00	—		75	26.62	36.10	23.69		0.321	0.1	
208	23.81	35.94	—		100	26.60	36.09	23.69		0.427	0.1	
276	21.03	36.60	—		150	24.95	35.99	24.12		0.630	0.2	
400	—	36.55	0.4		200	24.11	35.94	24.34		0.819	0.2	
527	14.24	35.94	—		250	21.90	36.53	25.43		0.977	0.3	
643	10.82	35.13	1.6		300	20.30	36.62	25.93		1.097	0.3	
764	8.78	35.08	1.8		400	17.60	36.55	26.57		1.286	0.4	
1000	5.17	35.00	—		500	15.10	36.22	26.91		1.431	0.9	
1250	4.37	34.94	1.6		600	12.01	35.27	26.82		1.565	1.5	
1526	4.18	34.93	1.5		700	9.91	35.10	27.06		—	1.7	
1918	4.05	35.90	—		800	8.12	35.07	27.33		1.793	1.8	
					1000	5.17	35.00	27.68		1.937	1.8	
					1200	4.48	34.94	27.71		2.044	1.6	
					1500	4.20	34.93	27.73		2.200	1.5	
					2000	*4.00*	34.92	27.74		2.466	—	

A & N Con. Form 7

VESSEL: ALASKA

STA. NO. 4-21-17 DATE 14 I 1952 LAT. 21°54' N. LONG. 85°23' W.
Day Month Year

TIME 1859 DEPTH 970 MAX. SAMPLE DEPTH 1592 WIRE ANGLE 10° WATER COLOR —
Meters Code

WEATHER 01 SEA 3 SWELL — °T. — ft. — sec. CLOUDS Sc 5
Code Code Direction Hgt. Period Type Amount

TEMP. 76.6 °F. 68.8 °F. BAR. 30.19 in. REL. HUM. 67% WIND 090 °T. 3 VIS. 10
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.55	35.90	—		0	26.55	35.90	23.56		0.000	—	
10	26.54	35.86	0.2		10	26.54	35.86	23.53		0.044	0.2	
24	26.52	35.90	—		20	26.53	35.90	23.57		0.087	0.2	
53	26.56	35.93	—		30	26.52	35.91	23.58		0.130	0.1	
78	26.53	36.13	0.0		50	26.53	35.93	23.59		0.217	0.1	
108	25.85	36.27	—		75	26.52	36.10	23.72		0.324	0.0	
162	24.72	35.91	—		100	26.10	36.25	23.97		0.427	0.0	
216	20.55	36.75	—		150	25.05	35.97	24.08		0.624	0.1	
326	17.06	36.44	0.5		200	21.25	36.72	25.75		0.780	0.2	
440	15.04	36.56	—		250	19.10	36.69	26.30		0.883	0.3	
550	11.29	35.42	1.2		300	17.58	36.54	26.57		0.967	0.4	
650	9.40	34.95	1.7		400	15.83	36.20	26.73		1.118	0.7	
874	6.25	35.20	1.8		500	12.85	35.70	26.98		1.250	1.0	
1089	4.93	34.99	—		600	10.29	35.06	26.97		1.372	1.5	
1293	4.39	34.97	—		700	8.52	34.95	27.18		—	1.8	
1592	4.15	35.02	—		800	7.10	34.96	27.39		1.577	1.8	
					1000	5.45	34.99	27.63		1.718	—	
					1200	4.31	34.96	27.71		1.830	—	
					1500	4.16	35.01	27.80		1.976	—	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-18 DATE 15 I 1952 LAT. 21°52' N. LONG. 85°01' W.
Day Month Year

TIME 1759 DEPTH 400 MAX. SAMPLE DEPTH 611 WIRE ANGLE 10° WATER COLOR -
Meters Code

WEATHER 01 SEA 3 SWELL - °T. - ft. - sec. CLOUDS Sc 1
Code Code Direction Hgt. Period Type Amount

TEMP. 77.2 °F. 71.0 °F. BAR. 30.18 in. REL. HUM. 74% WIND 135° T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ S	ΔD	PO ₄	
m.	°C	‰	μgat/L		m	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.45	36.10	---		0	26.45	36.10	23.74		0.000	---	
10	26.44	35.92	0.0		10	26.44	35.92	23.61		0.042	0.0	
24	26.41	35.95	---		20	26.42	35.94	23.65		0.085	0.0	
49	26.44	35.93	0.0		30	26.42	35.95	23.64		0.128	0.0	
73	26.42	35.97	---		50	26.44	35.93	23.62		0.214	0.0	
98	26.45	35.99	---		75	26.42	35.97	23.65		0.321	0.0	
152	23.08	36.18	0.0		100	26.43	35.99	23.67		0.428	0.0	
202	23.14	36.51	0.6		150	23.75	36.17	24.62		0.620	0.0	
251	18.52	37.42	0.1		200	20.75	36.50	25.72		0.763	0.6	
301	---	36.55	---		250	18.60	36.59	26.36		0.866	0.1	
356	---	36.17	---		300	17.50	36.55	26.60		0.948	0.1	
406	15.11	36.02	0.8		400	15.27	36.03	26.72		1.097	0.8	
456	16.27	35.94	0.1		500	13.10	35.66	26.90		1.234	0.9	
506	12.98	35.61	1.1		600	10.75	35.32	27.09		1.354	---	
611	10.64	35.30	---									

A & M Ocn. Form: 7

VESSEL: ALASKA

STA. NO. 4-2A-18A DATE 15 I 1952 LAT. 21°52' N. LONG. 85°03' W.
Day Month Year

TIME 1911 DEPTH 700 MAX. SAMPLE DEPTH 1241 WIRE ANGLE 16° WATER COLOR -
Meters

WEATHER 01 SEA 3 SWELL - °T. 4 ft. 8 sec. CLOUDS CS 4
Code Code Direction Hgt. Period Type Amount

TEMP. 78.0 °F. 71.9 °F. BAR. 30.14 in. REL. HUM. 75 % WIND 080 °T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.49	35.96	---		0	26.49	35.96	23.62		0.000	---	
23	26.46	35.99	0.0		10	26.47	35.97	23.64		0.043	---	
72	26.46	35.91	0.0		20	26.46	35.99	23.66		0.085	0.0	
96	26.51	36.09	0.0		30	26.46	35.99	23.66		0.128	0.0	
151	23.74	36.69	0.1		50	26.40	35.96	23.65		0.213	0.0	
200	20.99	36.74	---		75	26.45	35.91	23.60		0.321	0.0	
300	17.32	36.45	---		100	26.50	36.20	23.80		0.427	0.0	
356	16.15	36.03	---		150	23.74	36.69	25.02		0.606	0.1	
406	15.11	36.08	0.8		200	20.99	36.74	25.84		0.737	0.2	
508	13.22	35.77	1.3		250	19.00	36.70	26.34		0.837	0.3	
615	10.50	35.31	---		300	17.32	35.45	26.57		0.921	0.4	
717	9.28	35.17	---		400	15.25	36.09	26.77		1.069	0.8	
820	6.94	34.86	1.8		500	13.39	35.80	26.95		1.201	1.2	
959	5.56	34.90	---		600	10.73	35.37	27.13		1.317	1.5	
1087	4.70	34.96	---		700	9.50	35.19	27.20		---	1.7	
					800	7.26	34.86	27.29		1.517	1.8	
					1000	5.27	34.92	27.60		1.671	---	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-19 DATE 16 I 1952 LAT. 22°16' N. LONG. 84°54' W.
Day Month Year

TIME 0023 DEPTH 750 MAX. SAMPLE DEPTH 1100 WIRE ANGLE 23° WATER COLOR -
Meters Code

WEATHER 02 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sc 9
Code Code Direction Hgt. Period Type Amount
 TEMP. 77.4 °F. 70.0 °F. BAR. 30.13 in. REL. HUM. 69 % WIND 060 °T. 3 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO.	
m.	°C	‰	µgat/L		m.	°C	‰	mg/cm³		DYN. m.	µgat/L	
0	26.20	35.92	---		0	26.20	35.92	23.69		0.000	---	
23	26.23	35.93	0.0		10	26.21	35.95	23.70		0.042	---	
68	26.23	36.01	---		20	26.22	35.97	23.72		0.084	---	
92	26.10	36.00	---		30	26.23	35.99	23.73		0.126	0.0	
143	23.51	36.44	---		50	26.23	36.00	23.74		0.210	---	
187	21.72	36.82	---		75	26.18	36.01	23.76		0.315	---	
275	18.97	36.07	---		100	26.00	36.00	23.81		0.419	---	
322	17.09	36.34	---		150	23.35	36.57	25.04		0.597	---	
365	---	36.10	---		200	21.14	36.82	25.86		0.727	---	
450	14.55	36.52	---		250	19.55	36.72	26.21		0.830	---	
540	12.19	35.90	1.3		300	17.90	36.47	26.44		0.920	---	
626	9.51	35.14	1.6		400	15.46	35.94	26.61		1.082	---	
714	8.15	34.98	1.8		500	13.30	35.55	26.78		1.230	---	
837	6.27	36.32	0.1		600	10.10	35.21	27.12		1.355	1.5	
955	5.09	34.88	1.9		700	8.31	35.00	27.25		---	1.8	
1100	4.96	34.93	---		800	6.85	34.91	27.39		1.545	1.9	
					1000	5.00	34.89	27.61		1.688	---	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-20 DATE 16 I 1952 LAT. 22°53' N. LONG. 84°42' W.
Day Month YearTIME 0736 DEPTH 1250 MAX. SAMPLE DEPTH 1973 WIRE ANGLE 20° WATER COLOR -
Meters CodeWEATHER 00 SEA 3 SWELL 090 °T. 5 ft. 6 sec. CLOUDS -- 0
Code Code Direction Hgt. Period Type AmountTEMP. 74.0 °F. 66.8 °F. BAR. 30.15 in. REL. HUM. 69 % WIND 090 °T. 4 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	25.96	35.91	---		0	25.96	35.91	23.75		0.000	---
23	25.99	35.88	---		10	25.97	35.89	23.73		0.042	---
70	25.98	35.91	---		20	25.99	35.88	23.72		0.084	---
94	25.74	36.02	0.2		30	25.99	35.88	23.72		0.125	---
141	22.76	36.74	0.4		50	26.00	35.89	23.73		0.209	---
189	20.93	36.67	---		75	25.90	35.93	23.79		0.314	---
285	17.86	36.33	---		100	25.70	36.05	23.94		0.416	0.2
382	15.67	35.99	1.5		150	22.60	36.74	25.39		0.583	0.4
480	13.42	35.61	1.1		200	20.65	36.64	25.86		0.705	0.7
578	10.57	35.18	---		250	18.80	36.45	26.20		0.808	1.0
677	8.65	35.05	---		300	17.45	36.28	26.40		0.899	1.2
776	7.23	35.03	2.1		400	15.38	35.93	26.62		1.062	1.5
974	5.34	34.91	---		500	12.80	35.50	26.84		1.207	1.1
1273	4.47	34.88	---		600	10.07	35.14	27.07		1.331	1.4
1573	4.22	34.87	---		700	8.25	35.04	27.29		---	1.8
					800	6.92	35.02	27.47		1.518	---
					1000	5.19	34.90	27.60		1.656	---
					1200	4.59	34.88	27.65		1.776	---
					1500	4.27	34.87	27.68		1.949	---

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-21 DATE 16 I 1952 LAT. 23°32' N. LONG. 84°32' W.
Day Month YearTIME 1928 DEPTH 1500 MAX. SAMPLE DEPTH 1608 WIRE ANGLE 8 ° WATER COLOR -
Meters CodeWEATHER 01 SEA 1 SWELL - ° T. - ft. - sec. CLOUDS Sc 4
Code Code Direction Hgt. Period Type AmountTEMP. 75.8 ° F. 68.2 ° F. BAR. 30.21 in. REL. HUM. 68 % WIND 140 ° T. 2 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES				VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.	DEPTH	TEMP.	SAL.	σ_t	$10^6 S$	ΔD	PO.	
m.	°C	‰	μgat/L	m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	25.44	35.99	0.0	0	25.44	35.99	23.97		0.000	0.0	
25	25.38	35.98	0.0	10	25.40	35.98	23.98		0.039	0.0	
75	25.38	36.10	0.0	20	25.39	35.98	23.98		0.079	0.0	
100	25.38	36.06	0.0	30	25.38	35.98	23.99		0.118	0.0	
150	23.66	36.61	0.1	50	25.38	36.03	24.02		0.197	0.0	
198	21.13	36.75	0.2	75	25.38	36.10	24.08		0.294	0.0	
298	17.52	36.38	—	100	25.38	36.06	24.05		0.392	0.0	
398	15.55	36.00	—	150	23.66	36.61	24.98		0.566	0.1	
499	12.57	35.59	1.6	200	21.00	36.75	25.84		0.697	0.2	
700	8.13	35.00	1.7	250	19.00	36.64	26.29		0.799	0.4	
901	5.79	34.90	1.8	300	17.50	36.37	26.46		0.886	0.7	
1104	4.81	34.96	—	400	15.35	36.00	26.68		1.044	1.2	
1306	4.34	34.95	—	500	12.38	35.59	26.99		1.178	1.6	
1608	4.22	35.17	1.6	600	9.98	35.22	27.15		1.291	1.7	
				700	8.13	35.00	27.27		—	1.7	
				800	6.84	34.93	27.41		1.477	1.8	
				1000	5.31	34.90	27.58		1.621	1.8	
				1200	4.54	34.93	27.69		1.739	1.7	
				1500	4.21	35.00	27.79		1.889	1.6	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-22 DATE 17 I 1952 LAT. 24°08' N. LONG. 84°10' W.
Day Month YearTIME 0304 DEPTH 1610 MAX. SAMPLE DEPTH 2204 WIRE ANGLE 7 ° WATER COLOR —
MetersWEATHER 02 SEA 3 SWELL — ° T. — ft. — sec. CLOUDS Sc 5
Code Code Direction Hgt. Period Type AmountTEMP. 75.1 ° F. 70.8 ° F. BAR. 30.16 in. REL. HUM. 80 % WIND 180 ° T. 4 VIS. 7
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO.	
m.	°C	‰	μg/L		m.	°C	‰	mg/cm ³		DYN. m.	μg/L	

0	26.65	36.00	0.0		0	26.65	36.00	23.60		0.000	0.0	
49	26.26	36.25	—		10	26.51	36.06	23.69		0.017	0.0	
98	24.76	35.56	0.1		20	26.42	36.11	23.76		0.047	0.0	
147	21.99	36.92	—		30	26.37	36.15	23.81		0.126	0.0	
196	19.90	36.86	0.3		50	26.20	36.27	23.95		0.207	0.0	
294	15.16	36.18	0.8		75	25.75	36.47	24.24		0.303	0.1	
392	12.30	35.63	—		100	24.60	36.68	24.75		0.390	0.1	
487	9.98	35.20	—		150	21.80	36.92	25.75		0.529	0.2	
674	6.91	34.94	1.9		200	19.60	36.84	26.29		0.632	0.3	
860	5.44	34.89	—		250	17.33	36.59	26.67		0.713	0.5	
1047	4.62	35.03	1.4		300	15.08	36.14	26.85		0.782	0.8	
1234	4.31	34.99	1.6		400	12.10	35.60	27.05		0.903	1.5	
1517	4.20	35.16	1.5		500	9.70	35.17	27.16		1.009	1.7	
1808	4.18	34.97	—		600	8.00	35.00	27.29		1.105	1.8	
2204	4.18	34.97	—		700	6.71	34.93	27.42		—	1.9	
					800	5.96	34.89	27.49		1.266	1.8	
					1000	4.81	34.92	27.66		1.393	1.5	
					1200	4.35	34.98	27.75		1.496	1.5	
					1500	4.19	34.97	27.76		1.640	1.5	
					2000	4.20	34.97	27.76		1.896	—	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-23 DATE 17 I 1952 LAT. 24°38' N. LONG. 83°51' W.
Day Month YearTIME 0941 DEPTH 320 MAX. SAMPLE DEPTH 543 WIRE ANGLE 25 ° WATER COLOR -
Meters CodeWEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS - 0
Code Code Direction Hgt. Period Type AmountTEMP. 74.2 °F. 69.5 °F. BAR. 30.14 in. REL. HUM. 80 % WIND 100 °T. 2 VIS. -
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO ₄	
m.	°C	‰	μg/L		m.	°C	‰	mg/cm ³		DYN. m.	μg/L	
0	25.33	35.92	---		0	25.33	35.92	23.96		0.000	---	
22	25.10	36.18	0.0		10	25.25	36.10	24.12		0.039	---	
45	23.64	36.17	0.0		20	25.10	36.18	24.22		0.077	0.0	
67	22.53	36.21	0.0		30	24.80	36.18	24.31		0.113	0.0	
89	22.36	36.05	0.0		50	23.42	36.17	24.72		0.182	0.0	
137	20.26	36.44	---		75	22.65	36.25	25.00		0.260	0.0	
179	17.36	36.04	0.6		100	21.74	36.37	25.35		0.331	0.0	
221	15.37	35.98	1.0		150	18.90	36.43	26.16		0.446	0.4	
263	13.66	36.00	1.1		200	16.45	36.00	26.43		0.535	0.9	
309	13.35	35.66	1.4		250	14.77	35.91	26.74		0.612	1.1	
354	11.12	35.24	1.4		300	13.55	35.73	26.86		0.678	1.4	
398	9.68	35.08	1.7		400	9.60	35.08	27.10		0.795	1.7	
443	8.64	35.05	---		500	7.94	34.98	27.29		0.891	1.9	
543	7.42	34.86	1.9									

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-25 DATE 17 I 1952 LAT. 24°32' N. LONG. 83°06' W.
Day Month Year

TIME 1639 DEPTH 15 MAX. SAMPLE DEPTH 20 WIRE ANGLE -° WATER COLOR -
Meters

WEATHER 00 SEA 2 SWELL -° T. - ft. - sec. CLOUDS -
Code Code Direction Hgt. Period Type Amount

TEMP. 73.7°F. 69.5°F. BAR. 30.22 in. REL. HUM. 82% WIND 050° T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	21.77	36.07	---		0	21.77	36.07	25.11		0.000	---
10	21.81	36.12	---		10	21.81	36.12	25.14		0.028	---
20	21.73	35.84	0.1		20	21.73	35.84	24.95		0.058	0.1

VESSEL: ALASKA

STA. NO. 4-2A-26 DATE 19 I 1952 LAT. 24°25' N. LONG. 82°26' W.
Day Month Year

TIME 1558 DEPTH 20 MAX. SAMPLE DEPTH 40 WIRE ANGLE 0° WATER COLOR -
Meters

WEATHER 00 SEA 2 SWELL -° T. - ft. - sec. CLOUDS -
Code Code Direction Hgt. Period Type Amount

TEMP. 73.7°F. 68.9°F. BAR. 30.10 in. REL. HUM. 78% WIND 050° T. 2 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	23.58	36.18	---		0	23.58	36.18	24.68		0.000	---
10	23.54	36.11	---		10	23.54	36.11	24.64		0.033	---
20	23.36	36.24	0.2		20	23.36	36.24	24.79		0.065	0.2
30	22.96	36.13	0.0		30	22.96	36.13	24.82		0.097	0.0
40	22.77	36.17	---								

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-27 DATE 19 I 1952 LAT. 24°14' N. LONG. 82°25' W.
Day Month Year

TIME 1937 DEPTH 320 MAX. SAMPLE DEPTH 520 WIRE ANGLE 0 ° WATER COLOR -
Meters Code

WEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sc 1
Code Code Direction Hgt. Period Type Amount

TEMP. 73.0 °F. 69.4 °F. BAR. 30.11 in. REL. HUM. 84 % WIND 050 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	23.19	36.15	0.1		0	23.19	36.15	24.77		0.000	0.1
25	22.56	36.14	---		10	22.80	36.15	24.88		0.031	0.1
50	22.58	36.08	---		20	22.58	36.14	24.94		0.062	0.1
75	21.68	36.00	0.0		30	22.58	36.13	24.93		0.092	0.1
100	15.89	36.12	1.3		50	22.58	36.08	24.89		0.154	0.0
155	13.22	35.66	1.2		75	21.68	36.00	25.09		0.229	0.0
205	11.68	35.70	---		100	15.89	36.12	26.65		0.283	1.3
255	10.84	35.34	---		150	13.38	35.72	26.89		0.349	1.2
305	10.28	35.25	---		200	11.86	35.49	27.01		0.407	1.2
360	9.41	35.16	---		250	11.00	35.35	27.07		0.461	1.2
410	8.66	35.00	1.5		300	10.32	35.26	27.12		0.513	1.3
460	8.16	34.99	1.8		400	8.84	35.01	27.17		0.613	1.5
510	7.75	34.94	---		500	7.83	34.95	27.28		0.706	2.2
520	7.68	34.93	2.6								

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-28 DATE 20 I 1952 LAT. 23°48' N. LONG. 82°20' W.
Day Month Year

TIME 0030 DEPTH 780 MAX. SAMPLE DEPTH 1078 WIRE ANGLE 20° WATER COLOR —
Meters Code

WEATHER 00 SEA 2 SWELL — °T. — ft. — sec. CLOUDS Sc 1
Code Code Direction Hgt. Period Type Amount

TEMP. 77.2 °F. 70.7 °F. BAR. 30.12 in. REL. HUM. 72 % WIND 090 °T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₂		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₂	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.12	36.12	—		0	26.12	36.12	23.86		0.000	—	
22	26.10	35.95	0.0		10	26.08	36.02	23.80		0.041	—	
49	26.12	36.01	0.0		20	26.07	35.95	23.75		0.082	0.0	
70	24.61	36.32	—		30	26.10	35.96	23.75		0.124	0.0	
97	22.95	36.31	0.0		50	26.12	36.02	23.79		0.207	0.0	
149	21.21	37.05	0.2		75	24.15	36.32	24.62		0.301	0.0	
192	18.64	36.17	0.1		100	22.95	36.30	24.95		0.381	0.0	
284	15.26	36.02	0.8		150	21.20	36.23	25.39		0.523	0.2	
380	12.28	35.55	—		200	18.38	36.15	26.08		0.640	0.1	
463	9.91	35.40	1.6		250	16.48	36.07	26.48		0.731	0.4	
546	8.44	35.29	—		300	14.80	35.96	26.77		0.806	0.9	
707	6.55	34.86	1.9		400	11.95	35.51	27.01		0.932	1.4	
888	5.37	34.38	—		500	9.18	35.35	27.38		1.030	1.7	
1078	4.81	35.06	—		600	7.71	35.14	27.45		1.107	1.8	
					700	6.60	34.86	27.38		—	1.9	
					800	5.96	34.85	27.46		1.256	—	
					1000	4.99	34.99	27.69		1.383	—	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-29 DATE 20 I 1952 LAT. 23°33' N. LONG. 82°24' W.
Day Month YearTIME 0428 DEPTH 920 MAX. SAMPLE DEPTH 1490 WIRE ANGLE 5° WATER COLOR -
Meters CodeWEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sg 1
Code Code Direction Hgt. Period Type AmountTEMP. 75.9 °F. 71.6 °F. BAR. 30.11 in. REL. HUM. 80 % WIND 090 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10° δ	ΔD	PO ₄
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	26.03	36.12	---		0	26.03	36.12	23.89		0.000	---
25	25.89	36.27	0.0		10	25.85	36.21	24.01		0.040	---
50	26.07	35.98	0.1		20	25.90	36.26	24.04		0.079	---
75	25.98	36.00	---		30	25.90	36.27	24.04		0.118	0.0
99	25.46	36.26	0.0		50	26.07	35.98	23.77		0.198	0.1
149	22.61	36.82	0.1		75	25.98	36.00	23.81		0.302	0.0
199	20.04	36.77	0.4		100	25.20	36.28	24.27		0.399	0.0
298	17.02	---	---		150	22.70	36.82	25.42		0.558	0.1
396	14.19	35.91	---		200	20.00	36.76	26.12		0.672	0.4
495	11.42	35.48	1.4		250	18.30	36.54	26.39		0.765	0.6
693	9.67	36.83	0.2		300	17.03	36.33	26.54		0.848	0.8
892	5.65	34.97	1.8		400	13.90	35.85	26.88		0.991	1.1
1191	4.58	35.08	1.5		500	11.39	35.47	27.09		1.111	1.4
1490	4.22	34.97	1.3		600	10.61	35.30	27.10		1.221	1.6
					700	9.50	35.13	27.16		---	1.7
					800	7.20	35.00	27.41		1.412	1.8
					1000	5.20	34.97	27.65		1.550	1.7
					1200	4.59	34.97	27.72		1.659	1.5
					1500	*4.20*	*34.97	27.76		1.809	*1.3

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-30 DATE 20 I 1952 LAT. 23°12' N. LONG. 82°22' W.
Day Month YearTIME 1025 DEPTH 550 MAX. SAMPLE DEPTH 1048 WIRE ANGLE 3° WATER COLOR -
Meters CodeWEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS - 0
Code Code Direction Hgt. Period Type AmountTEMP. 68.8 °F. 66.2 °F. BAR. 30.07 in. REL. HUM. 88 % WIND 140 °T. 1 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO,		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO,	
m.	°C	‰	μg/L		m.	°C	‰	mg/cm ³		DYN. m.	μg/L	
0	25.24	36.13	---		0	25.24	36.13	24.14		0.000	---	
10	25.26	36.14	0.0		10	25.26	36.14	24.14		0.038	0.0	
25	25.34	36.08	0.0		20	25.30	36.09	24.09		0.076	0.0	
50	25.26	36.08	0.0		30	25.39	36.08	24.06		0.115	0.0	
75	25.28	36.35	---		50	25.26	36.08	24.10		0.192	0.0	
100	25.28	36.32	0.5		75	25.28	36.35	24.30		0.286	0.2	
150	23.19	36.83	1.3		100	25.28	36.32	24.27		0.378	0.5	
200	20.84	36.97	0.3		150	23.19	36.83	25.29		0.539	1.3	
299	---	36.44	0.5		200	20.84	36.97	26.06		0.659	0.3	
399	15.22	36.13	0.7		250	19.21	36.82	26.37		0.753	0.4	
499	13.03	35.71	1.1		300	17.65	36.42	26.46		0.838	0.5	
598	10.43	35.43	1.6		400	15.22	36.12	26.80		0.990	0.7	
798	7.11	34.97	2.1		500	13.03	35.70	26.95		1.121	1.1	
1048	4.92	35.08	---		600	10.40	35.42	27.23		1.232	1.6	
					700	8.60	35.17	27.33		---	1.9	
					800	7.05	34.97	27.41		1.411	*2.1	
					1000	5.17	35.03	27.70		1.544	---	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-31 DATE 22 I 1952 LAT. 23°15' N. LONG. 83°09' W.

Day Month Year

TIME 1756 DEPTH 1150 MAX. SAMPLE DEPTH 1998 WIRE ANGLE 5° WATER COLOR —

Meters

Code

WEATHER 00 SEA 2 SWELL 160 ° T. 3 ft. 3 sec. CLOUDS Sa 1

Code

Code

Direction

Hgt.

Period

Type

Amount

TEMP. 77.5 °F. 71.4 °F. BAR. 30.02 in. REL. HUM. 75 % WIND 160 ° T. 2 VIS. 8

Dry

Wet

Direction

Force

Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10' δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	25.45	36.13	—		0	25.45	36.13	24.08		0.000	—	
25	25.29	36.13	—		10	25.40	36.13	24.09		0.038	—	
50	25.25	36.13	1.0		20	25.30	36.13	24.12		0.077	—	
75	25.27	36.18	0.1		30	25.26	36.13	24.14		0.115	—	
100	25.12	36.17	0.1		50	25.25	36.13	24.14		0.191	1.0	
150	23.59	36.71	0.2		75	25.27	36.18	24.17		0.286	0.1	
199	—	36.30	—		100	25.12	36.17	24.21		0.380	0.1	
299	17.58	36.85	1.8		150	23.59	36.71	25.08		0.548	0.2	
399	15.72	36.64	0.7		200	20.80	36.80	25.94		0.675	1.0	
598	10.58	35.40	—		250	19.00	36.84	26.44		0.771	1.6	
798	6.88	34.88	—		300	17.56	36.85	26.81		0.846	1.8	
998	5.00	34.92	1.6		400	15.77	36.64	27.08		0.968	0.7	
1298	4.33	34.97	—		500	13.01	36.13	27.28		1.070	0.7	
1598	4.19	34.97	1.4		600	10.55	35.38	27.17		1.168	0.7	
1998	4.16	36.43	—		700	8.44	35.02	27.24		—	1.1	
					800	6.80	34.88	27.37		1.255	1.3	
					1000	4.90	34.92	27.64		1.496	1.6	
					1200	4.38	34.97	27.74		1.601	1.6	
					1500	4.20	34.97	27.76		1.747	1.5	
					2000	4.15	34.97	27.77		2.002	—	

A & H Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-32 DATE 23 I 1952 LAT. 23°24' N. LONG. 83°55' W.
Day Month YearTIME 0032 DEPTH 1250 MAX. SAMPLE DEPTH 2192 WIRE ANGLE 9 ° WATER COLOR 1
Meters CodeWEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS Sc 1
Code Code Direction Hgt. Period Type AmountTEMP. 77.0 °F. 71.5 °F. BAR 29.97 in. REL. HUM. 77 % WIND 090 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	25.55	36.02	0.1		0	25.55	36.02	23.96		0.000	0.1	
24	25.58	36.07	0.0		10	25.55	36.04	23.98		0.039	0.1	
49	25.53	37.63	0.0		20	25.57	36.06	23.99		0.079	0.0	
98	25.49	37.32	0.6		30	25.55	36.09	24.02		0.118	0.0	
148	23.53	36.69	---		50	25.50	36.18	24.10		0.196	0.0	
197	21.31	37.21	---		75	25.50	36.34	24.22		0.291	0.2	
296	17.54	36.34	---		100	25.48	36.50	24.35		0.383	0.6	
394	14.98	35.95	---		150	23.45	36.69	25.10		0.546	0.7	
493	12.53	35.48	1.1		200	21.17	36.74	25.79		0.677	0.8	
593	10.38	35.21	1.7		250	19.10	36.55	26.20		0.782	0.8	
792	7.00	34.88	2.0		300	17.33	36.32	26.46		0.871	0.9	
1092	4.86	34.88	1.7		400	14.79	35.93	26.75		1.025	1.0	
1392	4.29	35.79	1.2		500	12.39	35.46	26.89		1.161	1.1	
1692	4.18	34.94	1.5		600	10.12	35.19	27.10		1.281	1.7	
2192	4.17	34.93	1.4		700	8.30	34.99	27.24		---	1.9	
					800	6.88	34.88	27.36		1.476	2.0	
					1000	5.44	34.86	27.53		1.629	1.8	
					1200	4.51	34.91	27.68		1.753	1.5	
					1500	4.25	34.94	27.73		1.913	1.2	
					2000	4.18	34.94	27.74		2.181	1.5	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-33 DATE 23 I 1952 LAT. 23°32' N. LONG. 84°32' W.

Day Month Year

TIME 0658 DEPTH 1570 MAX. SAMPLE DEPTH 2258 WIRE ANGLE 25 • WATER COLOR -

Meters

Code

WEATHER 00 SEA 3 SWELL 180 • T. 3 ft. 3 sec. CLOUDS - 0

Code

Code

Direction

Hgt.

Period

Type

Amount

TEMP. 76.6 • F. 71.9 • F. BAR. 30.00 in. REL. HUM. 81 % WIND 180 • T. 3 VIS. 8

Dry

Wet

Direction Force

Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	25.95	35.91	---		0	25.95	35.91	23.76		0.000	---	
67	25.44	36.08	0.0		10	25.92	35.93	23.78		0.041	---	
135	24.55	36.41	0.1		20	25.86	35.95	23.81		0.083	---	
181	25.32	36.76	0.2		30	25.74	35.98	23.87		0.123	---	
226	20.28	36.68	0.2		50	25.57	36.03	23.96		0.204	---	
272	18.78	36.56	---		75	25.45	36.13	24.08		0.302	0.0	
364	16.40	36.18	0.7		100	25.17	36.23	24.24		0.397	0.0	
409	15.05	35.99	---		150	23.90	36.65	24.94		0.567	0.1	
454	13.55	35.68	2.0		200	21.30	36.74	25.75		0.702	0.2	
500	12.25	35.50	---		250	19.64	36.63	26.12		0.810	0.2	
545	11.28	35.39	2.2		300	18.26	36.45	26.33		0.904	0.4	
636	9.13	35.09	1.5		400	15.22	36.02	26.73		1.066	1.1	
728	7.40	34.91	2.4		500	12.25	35.50	26.95		1.200	2.1	
819	6.36	34.86	1.8		600	9.94	35.20	27.14		1.315	1.8	
1094	4.86	34.91	1.6		700	7.85	34.94	27.27		---	2.2	
1564	4.20	34.95	---		800	6.52	34.86	27.39		1.503	1.9	
2258	4.20	34.94	2.2		1000	5.30	34.88	27.57		1.649	1.6	
					1200	4.65	34.94	27.69		1.769	1.6	
					1500	4.25	34.95	27.74		1.927	1.7	
					2000	4.22	34.95	27.74		2.193	2.0	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-34 DATE 23 I 1952 LAT. 23°21' N. LONG. 85°17' W.
Day Month Year

TIME 1353 DEPTH 1370 MAX. SAMPLE DEPTH 2389 WIRE ANGLE 6 ° WATER COLOR -
Meters C1 1 Code

WEATHER 01 SEA 2 SWELL - ° T. - ft. - sec. CLOUDS Cu 4
Code Code Direction Hgt. Period Type Amount

TEMP. 77.5 ° F. 72.5 ° F. BAR. 30.10 in. REL. HUM. 79 % WIND 135 ° T. 2 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₂		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₂	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.49	35.86	0.1		0	26.49	35.84	23.55		0.000	0.1	
10	26.47	35.78	0.0		10	26.47	35.78	23.49		0.044	0.0	
25	26.50	35.84	0.0		20	26.50	35.82	23.52		0.088	0.0	
50	26.46	35.89	0.0		30	26.47	35.86	23.56		0.131	0.0	
75	26.48	35.84	0.0		50	26.46	35.89	23.58		0.218	0.0	
148	24.24	36.54	0.1		75	26.48	35.84	23.54		0.328	0.0	
198	20.38	36.80	0.2		100	26.30	36.02	23.73		0.435	0.0	
248	19.48	36.56	---		150	23.97	36.58	24.87		0.619	0.1	
297	18.02	36.40	---		200	21.37	36.80	25.78		0.756	0.2	
396	14.96	35.87	1.0		250	19.43	36.55	26.11		0.863	0.4	
446	13.84	35.71	1.0		300	17.80	36.38	26.40		0.956	0.7	
496	12.55	35.46	1.1		400	14.90	35.86	26.67		1.117	1.0	
545	11.11	35.37	---		500	12.76	35.45	26.87		1.258	1.1	
595	10.08	35.19	1.4		600	10.02	35.27	27.18		1.375	1.4	
694	8.45	35.20	1.7		700	8.36	35.06	27.29		---	1.7	
793	6.93	34.82	1.9		800	6.88	34.90	27.38		1.561	1.9	
893	6.02	34.93	1.7		1000	5.62	34.90	27.54		1.712	1.1	
1192	5.08	36.45	0.4		1200	4.99	34.92	27.63		1.841	0.4	
1690	4.21	34.93	1.5		1500	4.38	34.93	27.71		2.013	1.1	
2389	4.20	34.90	1.7		2000	4.20	34.92	27.72		2.292	1.7	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-35 DATE 23 I 1952 LAT. 23°30' N. LONG. 85°59' W.
Day Month YearTIME 2153 DEPTH 1850 MAX. SAMPLE DEPTH 457 WIRE ANGLE 39° WATER COLOR -
Meters C1 1 CodeWEATHER 02 SEA 2 SWELL - °T. - ft. - sec. CLOUDS CU 6
Code Code Direction Hgt. Period Type AmountTEMP. 78.5 °F. 72.0 °F. BAR. 30.05 in. REL. HUM. 73 % WIND 100 °T. 3 VIS. ?
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO.	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	26.60	35.84	0.1		0	26.60	35.84	23.50		0.000	0.1	
20	---	35.82	0.1		10	26.58	35.83	23.50		0.044	0.1	
40	26.40	35.89	0.0		20	26.50	35.82	23.52		0.088	0.1	
65	---	35.72	1.0		30	26.45	35.85	23.55		0.132	0.1	
77	25.92	36.19	0.0		50	26.30	35.87	23.62		0.218	0.0	
114	---	36.20	0.2		75	25.90	35.90	23.76		0.324	0.0	
152	19.80	36.74	---		100	25.08	36.20	24.24		0.423	0.1	
188	19.35	36.63	0.0		150	21.23	36.74	25.77		0.573	0.1	
225	18.28	36.49	1.1		200	19.05	36.59	26.24		0.677	0.0	
261	17.36	36.19	0.4		250	17.68	36.30	26.36		0.767	0.6	
294	16.20	35.34	---		300	15.92	36.00	26.55		0.850	0.9	
327	14.82	35.91	1.1		400	12.75	35.59	26.92		0.991	1.2	
357	14.06	35.84	1.0		500	9.83	35.22	27.17		1.104	1.5	
385	13.27	35.66	0.9		600	8.37	35.07	27.29		1.200	1.6	
411	12.23	35.52	1.3		700	7.54	34.96	27.33		---	1.7	
457	10.64	35.31	2.2		800	6.68	34.95	27.44		1.366	1.7	
543	8.88	35.34	1.6		1000	5.23	34.95	27.63		1.502	1.5	
711	7.46	34.96	1.7		1200	4.53	34.96	27.72		1.612	1.4	
921	5.66	34.95	1.6									
1295	4.35	34.99	1.4									

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-36 DATE 24 I 1952 LAT. 23°28' N. LONG. 86°43' W.
Day Month Year

TIME 0611 DEPTH 590 MAX. SAMPLE DEPTH 1035 WIRE ANGLE 15° WATER COLOR -
Meters Code

WEATHER 00 SEA 2 SWELL - °T. - ft. - sec. CLOUDS - 0
Code Code Direction Hgt. Period Type Amount

TEMP. 78.5°F 72.5°F. BAR. 30.15 in. REL. HUM. 75% WIND 080°T. 2 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ⁶ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	24.44	35.96	—		0	24.44	35.96	24.26		0.000	—	
10	—	35.95	0.0		10	24.33	35.95	24.28		0.037	0.0	
24	24.09	36.23	—		20	24.15	36.10	24.45		0.072	0.0	
48	21.68	36.48	0.2		30	23.85	36.37	24.74		0.106	0.1	
72	18.64	36.48	—		50	20.25	36.48	25.84		0.160	0.2	
96	17.32	36.35	0.5		75	18.45	36.48	26.31		0.209	0.4	
144	15.56	36.11	—		100	17.00	36.33	26.55		0.250	0.5	
192	13.99	35.73	1.0		150	15.40	36.07	26.72		0.322	0.8	
241	12.45	35.70	—		200	13.80	35.66	26.76		0.391	1.0	
290	10.49	35.45	1.6		250	12.15	35.36	26.86		0.456	1.4	
339	9.33	35.08	1.8		300	10.23	35.19	27.08		0.514	1.6	
388	7.84	35.02	2.6		400	8.28	35.01	27.26		0.612	2.6	
487	7.14	35.16	—		500	7.00	34.98	27.42		0.693	2.1	
586	6.32	35.28	1.8		600	6.22	34.96	27.51		0.764	1.8	
786	5.30	34.93	1.6		700	5.71	34.94	27.56		—	1.7	
1035	4.26	35.03	—		800	5.23	34.93	27.61		0.889	—	
					1000	4.39	35.00	27.77		0.991	—	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-37 DATE 24 I 1952 LAT. 24°31' N. LONG 85°54' W.
Day Month Year

TIME 1826 DEPTH 1850 MAX. SAMPLE DEPTH 2362 WIRE ANGLE 20° WATER COLOR -
feet Code

WEATHER 02 SEA - SWELL - °T. - ft. - sec. CLOUDS 04 5
Code Code Direction Hgt. Period Type Amount

TEMP. 73.3 °F. 70.2 °F. BAR. 30.17 in. REL. HUM. 86 % WIND 045 °T. 5 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO.	
m.	°C	‰	µgat/L		m.	°C	‰	mg/cm ³		DYN. m.	µgat/L	
0	26.00	34.36	0.0		0	26.00	34.36	22.57		0.000	0.0	
23	23.04	36.44	0.0		10	25.50	35.70	23.74		0.047	0.0	
46	22.21	36.18	0.0		20	23.70	36.35	24.77		0.084	0.0	
70	20.45	36.55	---		30	22.90	36.46	25.09		0.115	0.0	
94	18.20	36.35	0.8		50	21.00	36.53	25.43		0.169	0.0	
141	15.96	36.29	---		75	20.01	36.55	25.96		0.227	0.3	
188	14.54	36.04	0.9		100	18.00	36.34	26.32		0.275	0.8	
236	12.72	36.09	1.2		150	15.75	36.28	26.81		0.351	0.8	
284	23.61	35.33	0.0		200	13.85	35.90	26.93		0.413	1.0	
332	10.66	35.16	---		250	12.37	35.53	26.95		0.473	1.2	
380	9.83	35.01	---		300	11.38	35.28	26.94		0.532	1.4	
478	8.23	34.94	1.8		400	9.50	34.98	27.04		0.647	1.6	
575	7.05	35.66	2.0		500	7.97	34.94	27.25		0.749	1.8	
870	5.08	34.95	1.9		600	6.84	34.94	27.41		0.833	2.0	
1166	4.36	34.99	1.5		700	6.11	34.94	27.51		---	2.1	
1664	4.18	35.01	1.9		800	5.44	34.94	27.60		0.970	2.0	
2362	4.20	34.95	1.3		1000	4.68	34.97	27.71		1.080	1.7	
					1200	4.28	34.99	27.77		1.176	1.5	
					1500	4.18	35.01	27.80		1.313	1.7	
					2000	4.18	34.99	27.78		1.556	1.7	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-38 DATE 25 I 1952 LAT. 25°00' N. LONG. 86°00' W.
Day Month Year

TIME 0112 DEPTH 1820 MAX. SAMPLE DEPTH 1038 WIRE ANGLE 45 ° WATER COLOR -
Meters Code

WEATHER - SEA - SWELL - °T. - ft. - sec. CLOUDS So 4
Code Code Direction Hgt. Period Type Amount

TEMP. 71.3 °F. 68.6 °F. BAR. 30.22 in. REL. HUM. 88 % WIND 090 °T. 5 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^3 \delta$	ΔD	PO.
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	23.22	36.41	---		0	23.22	36.41	24.96		0.000	---
18	23.22	36.25	0.3		10	23.22	36.31	24.88		0.030	---
36	23.03	36.32	0.1		20	23.20	36.25	24.84		0.061	0.3
53	22.43	36.44	1.0		30	23.14	36.21	24.83		0.093	0.2
70	21.78	36.45	0.1		50	22.80	36.43	25.09		0.153	0.9
104	18.57	36.18	0.5		75	21.15	36.45	25.57		0.220	0.1
139	16.54	36.03	0.9		100	19.00	36.30	26.03		0.276	0.4
173	15.36	35.71	---		150	16.25	35.90	26.40		0.368	0.9
208	13.83	36.42	1.0		200	14.25	35.64	26.65		0.447	1.0
241	12.52	35.57	1.0		250	12.49	35.55	26.94		0.513	1.0
274	11.60	35.39	1.1		300	10.87	35.21	26.98		0.571	1.3
337	9.52	35.10	1.6		400	8.21	35.01	27.27		0.673	1.7
395	8.22	35.01	1.7		500	7.11	34.96	27.39		0.756	1.8
568	6.50	35.08	1.8		600	6.32	34.93	27.48		0.830	1.8
741	---	36.21	1.9		700	6.03	34.91	27.50		---	1.9
1038	5.30	34.89	0.7		800	5.72	34.90	27.53		0.967	1.9
					1000	5.35	34.89	27.57		1.100	1.0

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-39 DATE 25 I 1952 LAT. 25°35' N. LONG. 86°13' W.
Day Month Year

TIME 0927 DEPTH 1750 MAX. SAMPLE DEPTH 589 WIRE ANGLE 60° WATER COLOR -
Meters Code

WEATHER 01 SEA 4 SWELL - °T. - ft. - sec. CLOUDS Sc 3
Code Code Direction Hgt. Period Type Amount

TEMP. 74.0 °F. 70.1 °F. BAR. 30.20 in. REL. HUM. 82 % WIND 140° T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	

0 25.32 35.95 0.0
 18 24.37 35.97 0.0
 37 25.32 36.13 0.0

72 25.15 36.08 0.0
 138 23.26 36.67 ---
 198 20.64 36.74 0.3

257 18.12 36.43 0.4
 319 15.04 35.94 0.8
 358 14.72 35.91 0.9

406 13.18 35.70 1.2
 451 10.84 35.30 1.5
 468 9.37 36.04 0.3

589 8.94 35.17 1.7

0 25.32 35.95 23.98
 10 25.31 35.96 23.99
 20 25.31 35.97 24.00

30 25.30 36.05 24.06
 50 25.28 36.12 24.12
 75 25.14 36.08 24.13

100 24.60 36.81 24.85
 150 22.95 36.67 25.23
 200 20.65 36.74 25.93

250 18.50 36.51 26.32
 300 15.50 36.02 26.66
 400 13.38 35.76 26.92

500 9.25 35.24 27.23

0.000 0.0
 0.039 0.0
 0.079 0.0

0.118 0.0
 0.195 0.0
 0.290 0.0

0.377 0.0
 0.526 0.1
 0.650 0.3

0.748 0.4
 0.830 0.6
 0.966 1.2

1.073 1.6

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-40 DATE 25 I 1952 LAT. 26°05' N. LONG. 86°05' W.
Day Month YearTIME 1906 DEPTH 1700 MAX. SAMPLE DEPTH 2575 WIRE ANGLE 15° WATER COLOR —
Meters CodeWEATHER 02 SEA 4 SWELL — °T. — ft. — sec. CLOUDS Sc 6
Code Code Direction Hgt. Period Type AmountTEMP. 75.8 °F. 70.6 °F. BAR. 30.18 in. REL. HUM. 78 % WIND 100 °T. 4 VIS. 9
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10° S	ΔD	PO ₄	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L	
0	25.10	36.10	0.2		0	25.10	36.10	24.16		0.000	0.2	
25	25.03	36.14	0.0		10	25.10	36.12	24.18		0.038	0.1	
49	---	36.11	0.0		20	25.08	36.14	24.20		0.075	0.0	
73	25.04	36.09	---		30	25.05	36.13	24.20		0.112	0.0	
98	25.05	36.65	0.0		50	25.03	36.10	24.18		0.187	0.0	
146	23.83	36.27	0.9		75	25.03	36.09	24.18		0.282	0.0	
194	21.49	36.40	0.1		100	25.04	36.65	24.60		0.371	0.0	
243	19.54	36.37	0.2		150	23.50	36.28	24.78		0.537	0.9	
292	18.24	36.40	0.4		200	21.00	36.40	25.58		0.680	0.1	
341	17.02	36.09	0.6		250	19.35	36.37	25.99		0.795	0.2	
390	15.90	35.87	0.6		300	18.14	36.39	26.32		0.893	0.4	
440	14.60	35.60	1.1		400	15.65	35.84	26.49		1.067	0.6	
489	13.30	34.79	1.0		500	13.13	35.20	26.54		1.232	1.0	
586	11.10	34.79	1.5		600	10.88	34.96	26.79		1.384	1.5	
872	6.42	34.91	1.9		700	9.22	34.92	27.04		---	1.7	
1278	17.48	36.27	0.5		800	7.47	34.91	27.30		1.616	1.8	
1775	4.25	35.11	1.4		1000	5.65	34.92	27.55		1.774	1.9	
2575	4.22	34.98	1.4		1200	4.89	34.95	27.67		1.898	1.8	
					1500	4.33	34.98	27.76		2.058	1.6	
					2000	4.23	34.98	27.77		2.316	1.4	
					2500	4.22	34.98	27.77		---	1.4	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-41 DATE 26 I 1952 LAT. 27°00' N. LONG. 85°57' W.

Day Month Year

TIME 0428 DEPTH 1700 MAX. SAMPLE DEPTH 2195 WIRE ANGLE 25° WATER COLOR -
Meters Code

WEATHER 01 SEA 3 SWELL - °T. - ft. - sec. CLOUDS St 3
Code Code Direction Hgt. Period Type Amount

TEMP. 75.0 °F. 70.6 °F. BAR. 30.20 in. REL. HUM. 80 % WIND 110 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS						
DEPTH	TEMP.	SAL.	PO ₂		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₂
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm ³		DYN. m.	μgat/L
0	25.10	36.07	0.1		0	25.10	36.07	24.14		0.000	0.1
23	25.07	36.05	0.1		10	25.09	36.06	24.13		0.038	0.1
45	---	36.04	0.1		20	25.08	36.05	24.13		0.076	0.1
68	24.37	36.27	0.0		30	25.02	36.04	24.14		0.114	0.1
90	24.03	36.43	0.0		50	24.90	36.05	24.19		0.189	0.1
135	22.55	36.78	0.2		75	24.25	36.37	24.62		0.278	0.0
180	20.64	36.68	0.3		100	23.90	36.60	24.90		0.359	0.0
224	17.37	36.21	0.7		150	22.25	36.77	25.51		0.500	0.2
268	15.72	36.05	0.9		200	18.95	36.53	26.22		0.610	0.4
311	14.13	35.81	1.0		250	16.33	36.11	26.54		0.696	0.8
354	12.80	36.48	0.0		300	14.62	35.88	26.75		0.770	1.0
395	---	36.07	0.8		400	11.65	35.55	27.10		0.893	1.4
436	10.90	35.45	1.5		500	9.66	35.20	27.19		0.996	1.6
516	9.32	35.16	1.6		600	8.18	35.05	27.31		1.090	1.6
760	6.34	34.97	1.7		700	6.92	34.99	27.44		---	1.7
1084	5.11	34.94	1.6		800	6.08	34.96	27.53		1.246	1.7
1490	4.22	35.02	1.4		1000	5.06	34.95	27.65		1.370	1.6
2195	4.19	35.02	1.3		1200	4.52	34.97	27.73		1.477	1.5
					1500	4.23	35.02	27.80		1.621	1.4
					2000	4.20	35.03	27.81		1.857	1.3

A & M Can. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-42A DATE 26 I 1952 LAT. 27°35' N. LONG 85°46' W.
Day Month Year

TIME 1408 DEPTH 1775 MAX. SAMPLE DEPTH 2158 WIRE ANGLE 5 ° WATER COLOR -
Meters Code

WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec. CLOUDS Sc 1
Code Code Direction Hgt. Period Type Amount

TEMP. 73.3 °F. 69.3 °F. BAR. 30.20 in. REL. HUM. 82 % WIND 180 ° T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10° S	ΔD	PO ₄	
m.	°C	‰	μgwt/L		m.	°C	‰	mg/cm ³		DYN. m.	μgwt/L	
0	23.05	36.46	---		0	23.05	36.46	25.05		0.000	---	
10	23.05	36.25	---		10	23.05	36.25	24.89		0.030	---	
40	22.82	36.49	---		20	22.95	36.26	24.92		0.061	---	
75	20.97	36.71	---		30	22.88	36.38	25.03		0.091	---	
100	18.61	36.01	---		50	22.74	36.56	25.22		0.148	---	
150	15.90	36.13	---		75	20.97	36.71	25.82		0.210	---	
200	13.98	35.84	---		100	18.79	36.61	26.32		0.260	---	
250	12.60	35.59	---		150	15.90	36.13	26.66		0.339	---	
300	11.22	35.43	---		200	13.98	35.84	26.86		0.407	---	
400	13.73	36.51	---		250	12.60	35.59	26.95		0.468	---	
450	8.54	35.08	---		300	11.22	35.43	27.09		0.523	---	
500	7.69	35.05	---		400	9.37	35.18	27.22		0.623	---	
700	5.87	35.07	---		500	7.69	35.05	27.38		0.710	---	
900	4.99	34.95	---		600	6.58	34.98	27.48		0.784	---	
1200	4.33	34.98	---		700	5.87	34.94	27.54		---	---	
1471	4.80	35.01	---		800	5.38	34.94	27.60		0.914	---	
2158	4.20	35.30	---		1000	4.70	34.96	27.70		1.025	---	
					1200	4.33	34.98	27.76		1.123	---	
					1500	4.20	35.01	27.79		1.263	---	
					2000	4.20	35.03	27.81		1.499	---	

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-43 DATE 26 I 1952 LAT. 28°10' N. LONG. 86°00' W.
Day Month Year

TIME 2049 DEPTH 375 MAX. SAMPLE DEPTH 595 WIRE ANGLE 10° WATER COLOR -
Meters Code

WEATHER 00 SEA 3 SWELL - °T. - ft. - sec. CLOUDS Cu 4
Code Code Direction Hgt. Period Type Amount

TEMP. 74.5 °F. 71.4 °F. BAR. 30.12 in. REL. HUM. 86% WIND 135° T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄		DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgwt/L		m.	°C	‰	mg/cm ³		DYN. m.	μgwt/L	

0	22.88	36.35	0.4		0	22.88	36.35	25.01		0.000	0.4	
10	22.82	36.07	0.6		10	22.82	36.07	24.92		0.031	0.6	
25	22.79	36.40	---		20	22.78	36.35	25.04		0.061	0.6	
50	22.77	36.42	---		30	22.78	36.41	25.09		0.090	0.7	
75	21.07	36.15	---		50	22.77	36.42	25.10		0.148	0.7	
99	19.70	36.48	---		75	21.07	36.51	25.64		0.214	0.7	
124	17.86	36.31	0.8		100	19.70	36.48	25.99		0.269	0.8	
148	15.98	36.04	1.9		150	16.00	36.04	26.56		0.359	1.9	
198	14.40	35.99	---		200	14.38	35.99	26.89		0.428	1.8	
247	---	36.36	---		250	12.67	35.76	27.07		0.485	1.6	
296	11.08	35.37	1.5		300	11.02	35.35	27.06		0.539	1.5	
396	8.88	35.06	1.8		400	8.85	35.05	27.20		0.641	1.8	
496	7.54	34.76	1.9		500	7.47	34.95	27.33		0.730	1.9	
595	6.25	34.81	2.0									

A & M Ocn. Form 7

VESSEL: ALASKA

STA. NO. 4-2A-44 DATE 27 I 1952 LAT. 28°10' N. LONG 86°45' W.
Day Month Year

TIME 0359 DEPTH 1000 MAX. SAMPLE DEPTH 1836 WIRE ANGLE 22° WATER COLOR —
Meters Code

WEATHER 01 SEA — SWELL — °T. — ft. — sec. CLOUDS Sc 3
Code Code Direction Hgt. Period Type Amount

TEMP. 73.7 °F. 70.8 °F. BAR. 30.11 in. REL. HUM. 86 % WIND 140 °T. 3 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES				VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₄	DEPTH	TEMP.	SAL.	σ _t	10 ³ δ	ΔD	PO ₄	
m.	°C	‰	μgat/L	m.	°C	‰	mg/cm ³		DYK. m.	μgat/L	
0	23.00	36.38	0.0	0	23.00	36.38	25.00		0.000	0.0	
23	22.89	36.34	0.0	10	22.95	36.36	25.00		0.030	0.0	
47	22.52	36.36	0.0	20	22.90	36.34	25.00		0.059	0.0	
70	22.19	36.36	1.3	30	22.80	36.34	25.03		0.089	0.0	
93	20.18	36.44	0.3	50	22.50	36.36	25.13		0.147	0.0	
163	16.37	36.16	—	75	21.95	36.36	25.28		0.217	1.3	
232	13.81	35.73	0.9	100	19.75	36.44	25.94		0.277	0.3	
302	11.79	35.42	1.4	150	17.00	36.36	26.57		0.368	0.4	
372	10.01	35.19	1.6	200	15.00	35.90	26.68		0.441	0.7	
442	8.91	35.23	1.7	250	13.32	35.65	26.85		0.509	1.0	
513	8.28	35.26	1.9	300	11.85	35.45	26.99		0.570	1.4	
655	6.29	34.94	—	400	9.56	35.13	27.15		0.678	1.6	
943	5.01	35.06	1.7	500	8.47	35.02	27.24		0.775	1.9	
1234	4.32	35.13	1.5	600	7.00	34.95	27.40		0.861	2.0	
1537	5.41	35.19	0.1	700	6.00	34.94	27.53		—	1.9	
1836	4.20	36.60	1.5	800	5.55	34.95	27.59		1.000	1.8	
				1000	4.78	34.99	27.71		1.111	1.6	
				1200	4.31	—	—		—	1.5	
				1500	4.30	—	—		—	1.5	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-45 DATE 27 I 1952 LAT. 28°02' N. LONG. 87°29' W.

Day Month Year

TIME 1114 DEPTH 1490 MAX. SAMPLE DEPTH 2442 WIRE ANGLE 14° WATER COLOR -

Meters

WEATHER 00 SEA 2 SWELL 120 °T. 3 ft. 6 sec. CLOUDS CU 1

Code

Code

Direction

Hgt.

Period

Type

Amount

TEMP. 73.2 °F. 70.7 °F. BAR. 30.00 in. REL. HUM. 88% WIND 180 °T. 2 VIS. 8

Dry

Wet

Direction

Force

Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO.		DEPTH	TEMP.	SAL.	σ_t	$10^6 \delta$	ΔD	PO.	
m.	°C	‰	μg/L		m.	°C	‰	mg/cm ³		DYN. m.	μg/L	
0	22.50	36.15	0.2		0	22.50	36.15	24.97		0.000	0.2	
10	—	36.13	0.0		10	22.40	36.13	24.98		0.030	0.0	
24	22.47	36.15	0.1		20	22.45	36.16	24.99		0.060	0.1	
48	22.79	36.71	0.1		30	22.70	36.38	25.09		0.089	0.1	
72	20.78	35.86	0.0		50	22.40	36.71	25.42		0.144	0.1	
96	21.01	36.64	0.3		75	20.86	36.68	25.83		0.204	0.0	
144	16.92	36.41	0.6		100	20.00	36.63	26.02		0.257	0.3	
215	13.64	35.90	1.1		150	16.70	36.38	26.66		0.343	0.6	
286	11.50	35.96	1.2		200	14.25	36.00	26.92		0.409	1.0	
357	10.02	35.43	1.4		250	12.45	35.70	27.06		0.466	1.2	
427	—	36.30	0.6		300	11.11	35.52	27.18		0.517	1.2	
496	13.88	35.72	1.1		400	9.40	35.15	27.19		0.613	1.5	
565	10.53	35.41	1.5		500	7.99	34.97	27.27		0.707	1.6	
634	9.31	35.08	1.8		600	6.65	34.89	27.40		0.790	1.7	
794	6.36	34.88	1.9		700	5.85	34.88	27.50		—	1.8	
1158	4.46	34.94	1.4		800	5.32	34.88	27.56		0.931	1.9	
1666	4.19	35.10	1.5		1000	4.70	34.90	27.65		1.050	1.5	
2442	4.21	35.10	—		1200	4.40	34.95	27.73		1.157	1.4	
					1500	4.21	35.06	27.83		1.295	1.5	
					2000	4.19	35.11	27.87		1.507	—	

A & M Ocn. Form 7

VESSEL: ALASKASTA. NO. 4-2A-46 DATE 27 I 1952 LAT. 27°58' N. LONG. 88°15' W.
Day Month YearTIME 1828 DEPTH 1300 MAX. SAMPLE DEPTH 2148 WIRE ANGLE 22° WATER COLOR -
Meters CodeWEATHER 01 SEA 4 SWELL - °T. 8 ft. 5 sec. CLOUDS 01 2
Code Code Direction Hgt. Period Type AmountTEMP. 78.2 °F. 74.1 °F. BAR. 29.97 in. REL. HUM. 83% WIND 180 °T. 4 VIS. 8
Dry Wet Direction Force Code

OBSERVED VALUES					VALUES AT STANDARD DEPTHS							
DEPTH	TEMP.	SAL.	PO ₂		DEPTH	TEMP.	SAL.	σ _t	10° δ	ΔD	PO ₂	
m.	°C	‰	μgat/L		m.	°C	‰	mg/cm³		DYN. m.	μgat/L	

0	23.52	36.35	0.1		0	23.52	36.35	24.82		0.000	0.1	
9	23.48	36.36	0.1		10	23.30	36.37	24.90		0.031	0.1	
23	---	36.43	0.0		20	22.90	36.41	25.05		0.061	0.0	
46	22.57	36.26	---		30	22.65	36.45	25.15		0.090	0.0	
69	22.58	36.51	0.1		50	22.60	36.48	25.19		0.146	0.0	
92	22.56	37.03	---		75	22.60	36.51	25.21		0.216	0.1	
137	21.67	36.22	0.2		100	22.50	36.42	25.17		0.286	0.1	
205	17.25	36.17	0.6		150	20.95	36.22	25.45		0.422	0.2	
273	14.30	35.52	1.1		200	17.65	36.18	26.28		0.532	0.6	
340	12.10	35.68	1.4		250	15.13	36.06	26.78		0.611	0.9	
408	23.15	35.34	0.0		300	13.35	35.85	27.00		0.674	1.3	
476	13.79	35.30	1.3		400	10.50	35.38	27.18		0.780	1.4	
544	7.72	35.13	1.4		500	8.45	35.24	27.41		0.868	1.3	
611	6.98	35.01	1.8		600	7.13	35.03	27.44		0.943	1.8	
770	5.74	36.52	1.8		700	6.22*	34.94	27.50		---	1.9	
1135	4.53	36.64	1.5		800	5.53*	34.94	27.59		1.079	1.8	
1510	6.71	---	0.3		1000	4.87*	34.99	27.70		1.283	1.6	
2148	4.18	35.25	1.5		1200	4.48	---	---		---	1.5	
					1500	4.41	---	---		---	1.5	
					2000	4.30	---	---		---	1.5	

A & M Ocn. Form 7

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